



APPLICATION NO. 09/826,118

INVENTION: ~~New Wavelet Multi-Resolution Waveforms~~

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RECEIVED

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Technology Center 2100

CROSS-REFERENCE TO RELATED APPLICATIONS

U.S. PATENT DOCUMENTS

US-5,453,945	Sept 26 1995	Tucker et al.
US-5,526,446	June 11 1996	Adelson et al.
US-5,845,243	Dec 1 1998	Smart et al.
US-5,937,009	Aug 10 1999	Wong et al.
US-5,953,388	Sept 14 1999	Walnut et al.
US-6,064,768	May 16 2000	Hajj et al.
US-6,091,777	Jul 18 2000	Guetz et al.
US-6,182,035	Jan 30 2001	Mekuria
US-6,477,553	Nov 5 2002	Druck
US-6,584,111	June 24 2003	Aweya et al.
US-6,643,406	Nov 4 2003	Hajjahmad et al.
US-6,687,422	Feb 3 2004	Chen et al.

not considered

OTHER PUBLICATIONS

"A Computer Program for Designing Optimum FIR Linear Phase Filters' J.H. Mc.Clellan, T.W. Parks and L.R. Rabiner, IEEE Trans Audio Electroacoust. Vol. AU-21, Dec. 1973, pp. 506-526

"Eigenvalues: A New Approach to Least-Squares FIR Filter Design and Applications Including Nyquist Filters", P.P. Vaidyanathan and T.Q. Nguyen, IEEE Trans. on Circuits and Systems, Vo. CAS-34, No. 1, Jan. 1987, pp 11-23

"Wavelet Transform based Fast Approximate Fourier Transform", Haitao Guo, Sidney Burrus, 1997, IEEE, pp. 1973-1976

"A new design algorithm for two-band orthonormal rational filter banks and orthonormal rational Wavelets", T. Blu, IEEE Signal Processing, June 1998, pp. 1494-1504

"Optimum discrete Wavelet scaling and its application to delay and Doppler estimation", K.C. Ho and Y. T. Chan, IEEE Signal Processing, Sept. 1998, pp. 2285-2290

"Progressive Wavelet Correlation Using Fourier Analysis", Harold S. Stone, 01/1999 IEEE Transactions on Signal Processing Vol 47, No 1, pp 97-107 IEEE

"2-D and 1-D Multipaired Transforms: Frequency-Time Type Wavelets", Artyom M. Grigoryan, 02/2001 IEEE Transactions on Signal Processing, Vol. 49, No. 2, pages 344-353